L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1078234 CAPLUS Full-text

DN 143:347210

TI A preparation of fluoropyrrolobenzodiazepine dimers, useful as antitumor agents

IN Kamal, Ahmed; Reddy, Peram Surakattula Murali Mohan; Reddy, Depatla Rajashekhar

PA Council of Scientific and Industrial Research, India

SO U.S. Pat. Appl. Publ., 13 pp. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI US 2005222131	A1	20051006	US 2004-812840	20040330		
PRAI US 2004-812840		20040330				
GI				•		

The invention relates to a preparation of fluoropyrrolobenzodiazepine dimers of formula I [wherein: X is (CH2)3-10], useful as antitumor agents. For instance, fluoropyrrolobenzodiazepine dimer II (I, X = (CH2)4; logGI50 = -5.21, logTGI50 = -4.75) was prepared from diethylthioacetal derivative III via 3 steps.

TT 717920-82-6P 717920-83-7P 717920-84-8P 858639-17-5P 858639-19-7P 858639-21-1P 858639-23-3P 858639-25-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fluoropyrrolobenzodiazepine dimers useful as antitumor agents)

RN 717920-82-6 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,3-propanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 717920-83-7 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,4-butanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-,

(2S,2'S,11aS,11'aS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 717920-84-8 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,5-pentanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-17-5 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,6-hexanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-19-7 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,7-heptanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-21-1 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,8-octanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

RN 858639-23-3 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,9-nonanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-25-5 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,10-decanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

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ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
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2005:612296 CAPLUS Full-text AN

143:133404 DN

A preparation of fluoropyrrolobenzodiazepine dimers, useful as antitumor TI agents

Kamal, Ahmed; Reddy, Peram Surakattula Murali Mohan; Reddy, Depatla IN Rajasekhar

Council of Scientific and Industrial Research, India PA

PCT Int. Appl., 28 pp. SO

CODEN: PIXXD2

DTPatent

LA English

FAN.CNT 1

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PAT	PATENT NO.				KIND DATE			APPLICATION NO.						DATE				
PI WO	PI WO 2005063758			A1 20050714			WO 2003-IN448					20031231						
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	
		TR,	TT,	TZ,	UA,	ŪĠ,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW					
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
PRAI WO	PRAI WO 2003-IN448				20031231													
OS CAS	REAC	T 14	3:13	3404														

GI

AB The invention relates to a preparation of fluoropyrrolobenzodiazepine dimers of formula I [wherein: X is (CH2)3-10], useful as antitumor agents. For instance, fluoropyrrolobenzodiazepine dimer II (I, X = CH2)4; (logGI50 = -5.21, logTGI50 = -4.75) was prepared from diethylthioacetal derivative III via 3 steps.

IT 717920-82-6P 717920-83-7P 717920-84-8P 858639-17-5P 858639-19-7P 858639-21-1P 858639-23-3P 858639-25-5P

> RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fluoropyrrolobenzodiazepine dimers useful as antitumor agents)

717920-82-6 CAPLUS RN

5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,3propanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 717920-83-7 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,4-butanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 717920-84-8 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,5-pentanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-17-5 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,6-hexanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-19-7 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,7-heptanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-,(2S,2'S,11aS,11'aS)-(9CI) (CA INDEX NAME)

RN 858639-21-1 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,8-octanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-23-3 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,9-nonanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 858639-25-5 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,10-decanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:346285 CAPLUS Full-text.

DN 141:106440

TI The effect of C2-fluoro group on the biological activity of DC-81 and its dimers

AU Kamal, Ahmed; Reddy, P. S. M. M.; Reddy, D. Rajasekhar

CS Division of Organic Chemistry, Biotransformation Laboratory, Indian Institute of Chemical Technology, Hyderabad, 500007, India

SO Bioorganic & Medicinal Chemistry Letters (2004), 14(10), 2669-2672 CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier Science B.V.

DT Journal

LA English

OS CASREACT 141:106440

GI

HO NEO I

$$N = N$$
 $N = N$
 $N = N$

AB C2-Fluoro substituted pyrrolobenzodiazepines were synthesized that exhibit potential anticancer activity in a number of human tumor cell lines. These C2-fluoro substituted PBDs also exhibit significant DNA-binding ability. Example compds. included (2R,11aS)-2-Fluoro-1,2,3,11a-tetrahydro-8-hydroxy-7-methoxy-5H-pyrrolo[2,1-c][1,4]benzodiazepin-5-one (I) and a dimer (II).

ΙI

IT 717920-82-6P 717920-83-7P 717920-84-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (fluoro) tetrahydro (hydroxy) pyrrolo [2,1-

c] [1,4]benzodiazepin-

5-one derivs. and dimers and study of their anticancer activity)

RN 717920-82-6 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,3-propanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

RN 717920-83-7 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,4-butanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 717920-84-8 CAPLUS

CN 5H-Pyrrolo[2,1-c][1,4]benzodiazepin-5-one, 8,8'-[1,5-pentanediylbis(oxy)]bis[2-fluoro-1,2,3,11a-tetrahydro-7-methoxy-, (2S,2'S,11aS,11'aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 09:33:29 ON 27 JAN 2006)

FILE 'REGISTRY' ENTERED AT 09:34:02 ON 27 JAN 2006

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 1 S L2

L4 8 S L2 FUL

FILE 'CAPLUS' ENTERED AT 09:34:28 ON 27 JAN 2006

L5 3 S L4

=> d 12; d his

L2 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation. L2 QUE ABB=ON PLU=ON L1

(FILE 'HOME' ENTERED AT 09:33:29 ON 27 JAN 2006)

FILE 'REGISTRY' ENTERED AT 09:34:02 ON 27 JAN 2006

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 1 S L2

L4 8 S L2 FUL

FILE 'CAPLUS' ENTERED AT 09:34:28 ON 27 JAN 2006

L5 3 S L4

=> d 12; d his; log y

L2 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation. L2 QUE ABB=ON PLU=ON L1

(FILE 'HOME' ENTERED AT 09:33:29 ON 27 JAN 2006)

FILE 'REGISTRY' ENTERED AT 09:34:02 ON 27 JAN 2006

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 1 S L2

L4. 8 S L2 FUL

FILE 'CAPLUS' ENTERED AT 09:34:28 ON 27 JAN 2006

L5

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 15.79 FULL ESTIMATED COST 182.94 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -2.25 -2.25

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